

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE 05	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 031	3. EFFECTIVE DATE APR 6 2005	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable) EXTERNAL TANK
6. ISSUED BY Procurement Office George C. Marshall Space Flight Center National Aeronautics and Space Administration Marshall Space Flight Center, AL 35812		7. ADMINISTERED BY (If other than Item 6) Jocelyn G. Connelly/ACO (504) 257-3805	CODE PS42M
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP Code) Lockheed Martin Corporation P.O. Box 29304 New Orleans, LA 70189		(X) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)
CODE 100016 FACILITY CODE		(X) 10A. MODIFICATION OF CONTRACT/ORDER NO. NNM04AA02F	10B. DATED (SEE ITEM 13) 10-27-03

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required) See Page 2

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Clause 52.243-2 Changes Cost Reimbursement and FAR 43.103a
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not ☒ is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

	Provisional Estimated Cost	Negotiated Estimated Cost	Contract Value	Amount Allotted
Previous Contract Total	\$ 500,000	\$ 40,785,441	\$ 41,285,441	\$ 40,570,296
This Modification	\$ -0-	\$ 409,532	\$ 409,532	\$ -0-
Revised Contract Total	\$ 500,000	\$ 41,194,973	\$ 41,694,973	\$ 40,570,296

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Bradley P. Cartwright Director, Contracts and Estimating		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Howard J. Nelson Contracting Officer	
15B. CONTRACTOR/OFFEROR BY _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ORIGINAL SIGNED BY BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED APR 6 2005

- I. The purpose of this modification is to incorporate the requirements of Project Change Proposals (PCP) B81838B entitled "Thermal Protection System (TPS) Mockup and Spray Center – Permanent Facility CoF Design Effort" and PCP B81839B entitled "Production Processing Facility Modifications to Support External Tank Program Return to Normal Production Activities – Construction of Facilities (CoF) Design Effort" (35% Design Only).
- II. Section B. Clause B.2, Paragraph (b) Construction of Facilities (CoF), is hereby revised to increase the Negotiated Cost and Contract Value by \$68,458 for PCP B81838B and \$341,074 for PCP B81839B. The new totals for Negotiated Cost and Contract Value for this paragraph are shown on the attached B-1 page.
- III. Section J, Attachment J-4, CoF Projects – Modification and Construction of Real And Installed Property, is hereby revised to add PCP B81838B, "Thermal Protection System (TPS) Mockup and Spray Center – Permanent Facility CoF Design Effort" Line Items 358, 359, and PCP B81839B, "Production Processing Facility Modifications to Support External Tank Program Return to Normal Production Activities – Construction of Facilities (CoF) Design Effort" Line Items 361, 362, 363, 364, 365, 366, 367, and 368.
- IV. The following pages of the contract are revised as appended, and made an inseparable part hereof.

Revised Pages

B-1, J-4-2, and J-4-3

Added Page

J-4-4

- V. This modification consists in its entirety of Standard Form 30, page 2, and the revised pages listed in paragraph IV. above.

Contract Change Identification

CCBD ET3-00-9936, Dated 02/16/05

CCBD ET3-00-9938, Dated 02/16/05

Contract Proposal Number

PCP B81838B (05MO-0116), PCIN 0713172, Dated 02/03/05

PCP B81839B (05MO-0118), PCIN 0713172, Dated 02/03/05 as Updated on 3/8/05

Supplemental Agreement No. 031

SECTION B

SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 BRIEF DESCRIPTION OF WORK

The Contractor shall furnish all personnel, facilities, equipment, material, supplies and services (except as may be expressly set forth in this contract as furnished by the Government) and otherwise do all things necessary to, or incident to, performing and providing the following items of work:

To facilitate the Space Shuttle External Tank Project under this consolidated facilities contract by providing Government furnished property and the acquisition of other property for use as needed as further described in Attachment J-1.

(End of clause)

B.2 ESTIMATED COST FOR FACILITIES

The total estimated cost for complete performance of this contract for each category is stated below. This is a cost reimbursable contract only and therefore the Government shall not pay the Contractor a fee for performing this contract.

(a) Space Flight, Control and Data Communications (SFC&DC)

	<u>Provisional Cost</u>	<u>Negotiated Cost</u>	<u>Contract Value</u>
Previous	\$ 500,000	\$ 29,904,441	\$ 30,404,441
This Mod	<u>\$ -0-</u>	<u>\$ -0-</u>	<u>\$ -0-</u>
Total	\$ 500,000	\$ 29,904,441	\$ 30,404,441

(b) Construction of Facilities (CoF)

	<u>Negotiated Cost</u>	<u>Contract Value</u>
Previous	\$ 10,881,000	\$ 10,881,000
This Mod	<u>\$ 409,532</u>	<u>\$ 409,532</u>
Total	\$ 11,290,532	\$ 11,290,532

(c) Construction of Facilities (CoF) Environmental Studies

	<u>Negotiated Cost</u>	<u>Contract Value</u>
Previous	\$ -0-	\$ -0-
This Mod	<u>\$ -0-</u>	<u>\$ -0-</u>
Total	\$ -0-	\$ -0-

Recapitulation of Total Contract Value \$ 41,694,973

Contract NNM04AA02F
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<u>Line Item No.</u>	<u>Facility Project Description</u>	<u>Estimated Design Costs</u>	<u>Estimated Construction & SIES Costs</u>	<u>Estimated Site Investigation & Studies</u>	<u>Estimated G&A Cost</u>	<u>Estimated Construct. Start Date</u>	<u>Estimated Construct. Completion Date</u>
350	Repair Cooling Tower Building 352		\$565,660		(b)(4)	Jun 2004	May 2005
358 (35% Design)	Rehab and Modify Building 103 for TPS Mockup (Northeast)	\$52,181				Dec 2005	Sep 2006
359 (35% Design)	TPS Mock-up and Spray Storage – Building 420	\$12,824				Dec 2005	Jun 2006
361 (35% Design)	Rehab and Modify Final Assembly – Building 103	\$62,067				Nov 2005	Nov 2006
362 (35% Design)	Rehab and Modify Final Assembly Positions 1&2	\$51,049				Nov 2005	Nov 2006
363 (35% Design)	Rehab and Modify Final Assembly Position 3	\$31,484				Nov 2005	Nov 2006
364 (35% Design)	Rehab and Modify Final Assembly Position 4	\$31,484				Nov 2005	Nov 2006
365 (35% Design)	Rehab and Modify Intertank Position 3	\$14,423				Nov 2005	Nov 2006
366 (35% Design)	Rehab and Modify Cell A Close Out Area	\$28,740				Nov 2005	Nov 2006
367 (35% Design)	Rehab and Modify Building 420, Cells 1 & 2	\$29,869				Oct 2005	Nov 2006

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Line Item No.	Facility Project Description	Estimated Design Costs	Estimated Construction & SIES Costs	Estimated Site Investigation & Studies	Estimated G&A Cost	Estimated Construct. Start Date	Estimated Construct. Completion Date
368 (35%Design)	Rehab and Modify 103 for New Gun/ Proportioner Facility	\$74,754				Mar 2006	Mar 2007
2006D	FY 06 CoF Project – Design and Site Investigation Install Closed Loop Chilled Water System (103) Phase II (Line Item 338)	\$158,393				Dec 2005	Mar 2007
	Replace Fire Alarm Systems Phase II (Line Item 339)	\$130,108			(b)(4)	Dec 2005	Jan 2007
	Replace Substation 46 and Motor Control Centers (MCC) (131) (Line Item 340) *Option	\$92,957 \$3,210				Dec 2005	Feb 2007
	Rehab Cranes and Trolleys/Controls (103) Phase II (Line Item 341)	\$94,249				Dec 2005	Jan 2007

* Options will be worked based on availability of funding

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<u>Line Item No.</u>	<u>Facility Project Description</u>	<u>Estimated Design Costs</u>	<u>Estimated Construction & SIES Costs</u>	<u>Estimated Site Investigation & Studies</u>	<u>Estimated G&A Cost</u>	<u>Estimated Construct. Start Date</u>	<u>Estimated Construct. Completion Date</u>
2006D cont.							
	Replace Cooling Tower/ Chiller & Air Handling Units (AHU) 1 and 2 (420/421) (Line Item 342)	\$173,500			(b)(4)	Dec 2005	Feb 2007
	Rehab Critical Wastewater Process Tanks (173) Phase II (Line Item 343)	\$105,578				Dec 2005	Jan 2007
	Replace Air Handling Units (AHU) and Decking North Mezzanine (103) (Line Item 344)	\$256,509				Dec 2005	Apr 2007
	Replace Breathing/Plant Air Compressors (318) (Line Item 345)	\$75,413				Dec 2005	Jan 2007
	Replace Feeders 17/31 Underground (Line Item 346)	\$117,852				Dec 2005	Mar 2007